

PAT-NO: JP410040433A
DOCUMENT-IDENTIFIER: JP 10040433 A
TITLE: TOOL COLLECTOR
PUBN-DATE: February 13, 1998

INVENTOR-INFORMATION:
NAME
TAKAMI, KENICHI

ASSIGNEE-INFORMATION:
NAME COUNTRY
MITSUBISHI HEAVY IND LTD N/A

APPL-NO: JP08196211
APPL-DATE: July 25, 1996

INT-CL (IPC): G07B015/00, G07B015/00 , G08B029/00

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a toll collector with which the collecting processing of toll can be surely performed by communicating data only with one vehicle.

SOLUTION: An on-road antenna 3 for performing data communication with an on-vehicle equipment 2 loaded on a vehicle 1 is installed through mobile equipment 4 for changing the direction to a gate 5. Besides, a position detection sensor 6 for detecting the position of the vehicle 1 is installed on the road for plural pieces. A radiating direction control part 7 for recognizing the position of the vehicle corresponding to a signal from the position detection sensor 6 is connected to the sensor 6. Besides, the radiating direction control part 7 determines an angle for turning the on-road antenna 3 toward the vehicle 1 and outputs a driving signal. The mobile equipment 4 for changing the direction of the on-road antenna 3 corresponding to the driving signal is connected to the radiating direction control part 7. A radiated radio wave control part 8 for controlling the strength of a transmitted output 10 from the on-road antenna 3 corresponding to the strength

of received output 9 of radio wave transmitted from the on-vehicle
equipment 2
is connected to the on-road antenna 3.

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